# **Job Posting Site For Job Seekers and Reruiters**

 $\mathbf{B}\mathbf{y}$ 

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### 1. Overview

This project is a job posting platform designed to facilitate the hiring process for recruiters and job seekers. The primary objective of this project is to create a comprehensive and user-friendly web application that allows recruiters to post job openings and manage applications, while job seekers can search for jobs, apply, and interact with job postings and more features mentioned below.

### 2. Features

- **User Authentication:** The platform ensures secure user authentication through JSON Web Tokens (JWT), providing a safe and reliable login and registeration mechanism.
- **User Profiles:** Users can create and manage their profiles, showcasing their work experience, skills, and other relevant information.
- **User Interactions:** Both recruiters and job seekers can interact with job postings by liking and commenting on them.
- **Review Applicants:** Recruiters can review applicants data and profiles for each job post he posted.

# 3. System archeticture

The system architecture of this project is designed to ensure a seamless and efficient user and even developer experience. The architecture is divided into three main components: User Interface (UI), Application Programming Interface (API), and Database (Data Access Layer).

#### **UI**

The User Interface (UI) is responsible for providing an interactive and intuitive experience for the users. Key elements of the UI include:

• **Responsive Design:** The UI is designed to be responsive, ensuring it works well on various devices such as desktops, tablets, and smartphones.

#### API

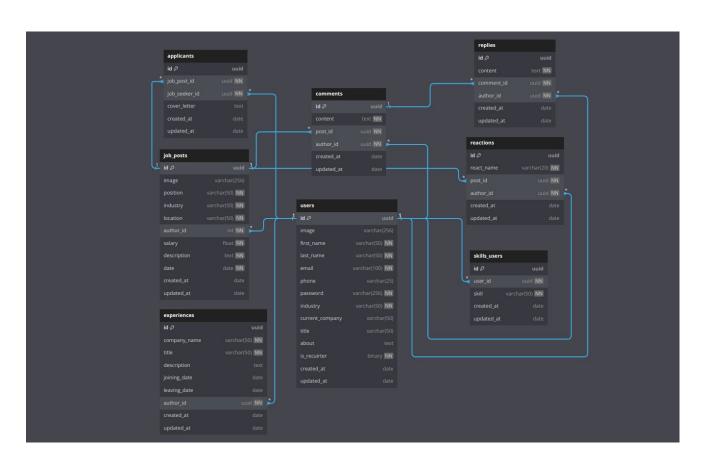
The Application Programming Interface (API) serves as the intermediary between the frontend and the backend of the application. Key aspects of the API include:

- **RESTful Endpoints:** The API is designed with RESTful principles, providing clear and consistent endpoints for various operations such as user authentication, profile management, job postings, and interactions.
- **Authentication:** Secure user authentication is implemented using JSON Web Tokens (JWT), ensuring that user sessions are safe and reliable.
- **Data Handling:** The API handles all data processing by communicating with data access layer for creating, updating, retrieving and deleting.

#### **Database (Data Access Layer)**

The Database (Data Access Layer) is responsible for storing and managing all the data used by the application. It includes both the database itself and the code to interact with it. Key features of the data access layer include.

- **Schema Design:** The database schema is designed to efficiently store information related to users, job postings, applications, interactions, etc...
- **Entity Models:** Each table in the database has a corresponding model (class) that encapsulates the table's structure and implement CRUD (Create, Read, Update, Delete) operations.
- **Data Fetching:** The data access layer includes functions and methods for fetching, inserting, updating, and deleting data from the database.
- **Relationships:** Appropriate relationships are established between different entities (e.g., users and job postings, job postings and applications) to maintain data integrity.



## 4. team interactions

The development process was divided into three main sections: User Interface (UI), Application Programming Interface (API), and Database (Data Access Layer). Each section had dedicated team members working together to achieve the project goals.

## **User Interface (UI)**

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3. Mariam Mohamed Ali	2220461
4. Aya Megahed Zaki	2220099

## **Application Programming Interface (API)**

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2. Mohamed Alsaid Abdelrahman	2220357
3. Saga Hamed Mohamed	2220194

## **Database (Data Access Layer)**

1. Mostafa Mohamed Elmasry	2220476
2. Mohamed Hussien Fawzy	2220368
3. Mahmoud Diaa El-Din Mahmoud	2220433
4. Salma Sherif Saleh	2220199